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(74) Agents: FARAH, David, A. et al.; Sheldon & Mak PC, 225 South Lake Avenue, 9th Floor, Pasadena, CA 91101 (US).

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(71) Applicant (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 1111 Franklin Street, 12th Floor, Oakland, CA 94607 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ROME, Leonard, H. [US/US]; 18141 Rancho Street, Tarzana, CA 91356 (US). KICKHOFER, Valerie, A. [US/US]; 3918 Scadlock Lane, Sherman Oaks, CA 91403 (US). RAVAL-FERNANDES, Sujata [US/US]; 3445 Mentone Avenue, #211, Los Angeles, CA 90034 (US). STEWART, Phoebe, L. [US/US]; 9442 Norwood Drive, Brentwood, TN 37027 (US).

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(54) Title: VAULT AND VAULT-LIKE CARRIER MOLECULES

(57) **Abstract:** A method of using vaults as carrier molecules to deliver one or more than one substance to an organism, or to a specific tissue or to specific cells, or to an environmental medium. A vault-like particle. A method of preventing damage by one or more than one substance to an organism, to a specific tissue, to specific cells, or to an environmental medium, by sequestering the one or more than one substance within a vault-like particle. A method of delivering one or more than one substance or a sensor to an organism, to a specific tissue, to specific cells, or to an environmental medium. According to another embodiment of the present invention, there is provided a method of making vault-like particles, and making vault-like particles comprising one or more than one substance, or one or more than one sensor.

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